## **AMENDMENT TO THE CLAIMS**

The following claim set replaces all prior versions, and listings, of claims in the application:

- 1. (currently amended) A curable rapid prototyping composition comprising:
  - (i) <u>at least 50wt%, relative to the total weight of the composition, of</u> one or more aromatic epoxies;<del>and</del>
  - (ii) one or more aliphatic epoxies; and
  - (iii) one or more oxetanes;

wherein said composition, after full cure, has a heat deflection temperature (1.82 MPa) of at least 105°C under a pressure of 1.82 MPa, and an elongation at break of at least 1.5%.

- 2. (original) The composition of claim 1, wherein said composition comprises two or more aromatic epoxies.
  - 3 5. (cancelled)
- 6. (currently amended) The composition according to elaim 5 claim 1, wherein said composition comprises 5-40 wt%, relative to the total weight of the composition, of said one or more oxetanes.
- 7. (previously presented) The composition according to claim 1, wherein said one or more aliphatic epoxies consist essentially of epoxies comprising a cycloaliphatic ring structure.
- 8. (previously presented) The composition according to claim 1, wherein said one or more aliphatic epoxies include an epoxy comprising two cyclohexene oxide structures.

- 9. (previously presented) The composition according to claim 1, wherein said composition comprises 5-30 wt% of said one or more aliphatic epoxies.
- 10. (previously presented) The composition according to claim 1, wherein said composition comprises an epoxy having no more than one epoxy group.
- 11. (previously presented) The composition according to claim 1, wherein said composition further comprises one or more free radical polymerizable components.
- 12. (original) The composition of claim 11, wherein said one or more free radical polymerizable components include a component having 5 or 6 (meth)acrylate groups.
- 13. (previously presented) The composition according to claim 11, wherein said composition comprises 5-25 wt%, relative to the total weight of the composition, of said one or more free radical polymerizable component.
- 14. (previously presented) The composition according to claim 1, wherein said one or more aromatic epoxies include a phenol epoxy novolac and/or a cresol epoxy novolac.
- 15. (previously presented) The composition according to claim 1, wherein said one or more aromatic epoxies includes a bisphenol diglycidyl ether.
- 16. (previously presented) The composition according to claim 1, wherein said composition comprises a (meth)acrylate functional pentaerythritol derivative.
- 17. (previously presented) The composition according to claim 1, wherein said composition further comprises a cationic photoinitiator and a free radical photoinitiator.
- 18. (currently amended) The composition according to claim 1, wherein said composition comprises about 0-4 wt% of hydroxy-functional components that are

absent a curable an acrylate, epoxy or oxetane group and are not selected from the group consisting of photoinitiators.

- 19. (previously presented) The composition according to claim 1, wherein said heat deflection temperature is at least 115°C.
- 20. (previously presented) The composition according to claim 1, wherein said heat deflection temperature is at least 125°C.
- 21. (previously presented) The composition according to claim 1, wherein said elongation to break is at least 2%.
- 22. (previously presented) The composition according to claim 1, wherein said elongation to break is at least 3%.
- 23. (previously presented) The composition according to claim 1, wherein said composition has an E10 cure speed of less than 80 mJ/cm2.
- 24. (currently amended) The composition according to claim 1, wherein said composition has a viscosity of less than 750 mPas mPa.s at 30°C.
- 25. (previously presented) The composition according to claim 1, wherein said composition, after full cure, has a tensile strength of at least 35 MPa.
- 26. (previously presented) The composition according to claim 1, wherein said composition, after full cure, has a modulus of at least 2000 MPa.
- 27. (previously presented) The composition according to claim 1, wherein said composition comprises a color-changing dye.
- 28. (currently amended) The A-curable composition according to claim 1, wherein the composition has having an E10 cure speed of less than 80 mJ/cm<sup>2</sup> and, wherein the composition, after full cure by radiation and heat, has a heat deflection

temperature (1.82 MPa) of at least 125°C under a pressure of 1.82 MPa and an elongation at break of at least 2.5%.

- 29. (previously presented) The composition according to claim 1, wherein said composition comprises, relative to the total weight of the composition, about 0 wt% filler.
  - 30. (currently amended) A rapid prototyping process comprising:
    - (1) coating a layer of a <u>curable rapid prototyping</u> composition <del>according</del> to elaim 1 onto a surface, the composition comprising (i) at least 50wt%, relative to the total weight of the composition, of one or more aromatic epoxies, (ii) one or more aliphatic epoxies, and (iii) one or more oxetanes;
    - (2) exposing said layer imagewise to actinic radiation to form an imaged cross-section;
    - (3) coating a layer of said the curable rapid prototyping composition according to claim 1 onto the previously exposed imaged cross-section obtained in step (2);
    - (4) exposing said layer from step (3) imagewise to actinic radiation to form an additional imaged cross-section;
    - (5) repeating steps (3) and (4) a sufficient number of times to form a three-dimensional article; and thereafter
    - (6) curing the article, wherein the article, after full cure, has a heat deflection temperature of at least 105°C under a pressure of 1.82 MPa, and an elongation at break of at least 1.5%.
  - 31 -34. (canceled) An article obtainable by the process of claim 30.
- 35. (new) The method of claim 30, wherein said composition comprises two or more aromatic epoxies.

- 36. (new) The method according to claim 30, wherein said composition comprises at least 25 wt%, relative to the total weight of the composition, of said one or more aromatic epoxies.
- 37. (new) The method according to claim 30, wherein said composition comprises 5-40 wt%, relative to the total weight of the composition, of said one or more oxetanes.
- 38. (new) The method according to claim 30, wherein said one or more aliphatic epoxies consist essentially of epoxies comprising a cycloaliphatic ring structure.
- 39. (new) The method according to claim 30, wherein said one or more aliphatic epoxies include an epoxy comprising two cyclohexene oxide structures.
- 40. (new) The method according to claim 30, wherein said composition comprises 5-30 wt% of said one or more aliphatic epoxies.
- 41. (new) The method according to claim 30, wherein said composition comprises an epoxy having no more than one epoxy group.
- 42. (new) The method according to claim 30, wherein said composition further comprises one or more free radical polymerizable components.
- 43. (new) The method of claim 42, wherein said one or more free radical polymerizable components include a component having 5 or 6 (meth)acrylate groups.
- 44. (new) The method according to claim 42, wherein said composition comprises 5-25 wt%, relative to the total weight of the composition, of said one or more free radical polymerizable component.
- 45. (new) The method according to claim 30, wherein said one or more aromatic epoxies include a phenol epoxy novolac and/or a cresol epoxy novolac.

- 46. (new) The method according to claim 30, wherein said one or more aromatic epoxies includes a bisphenol diglycidyl ether.
- 47. (new) The method according to claim 30, wherein said composition comprises a (meth)acrylate functional pentaerythritol derivative.
- 48. (new) The method according to claim 30, wherein said composition further comprises a cationic photoinitiator and a free radical photoinitiator.
- 49. (new) The method according to claim 30, wherein said composition comprises about 0-4 wt% of hydroxy-functional components that are absent a curable group and are not selected from the group consisting of photoinitiators.
- 50. (new) The method according to claim 30, wherein said heat deflection temperature is at least 115°C.
- 51. (new) The method according to claim 30, wherein said heat deflection temperature is at least 125°C.
- 52. (new) The method according to claim 30, wherein said elongation to break is at least 2%.
- 53. (new) The method according to claim 30, wherein said elongation to break is at least 3%.
- 54. (new) The method according to claim 30, wherein said composition has an E10 cure speed of less than 80 mJ/cm<sup>2</sup>.
- 55. (new) The method according to claim 30, wherein said composition has a viscosity of less than 750 mPa.s at 30°C.
- 56. (new) The method according to claim 30, wherein said composition, after full cure, has a tensile strength of at least 35 MPa.

- 57. (new) The method according to claim 30, wherein said composition, after full cure, has a modulus of at least 2000 MPa.
- 58. (new) The method according to claim 30, wherein said composition comprises a color-changing dye.
- 59. (new) The method according to claim 30, wherein the composition has an E10 cure speed of less than 80 mJ/cm<sup>2</sup> and, wherein the composition, after full cure, has a heat deflection temperature of at least 125°C under a pressure of 1.82 MPa and an elongation at break of at least 2.5%.
  - 60. (new) An article made by the process of claim 30.
- 61. (new) The article of claim 60, wherein the heat deflection temperature is at least 115°C.
- 62. (new) The article of claim 60, wherein the heat deflection temperature is at least 125°C.
  - 63. (new) The article of claim 60, wherein the elongation to break is at least 2%.
  - 64. (new) The article of claim 60, wherein the elongation to break is at least 3%.